BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Improvements to roads and drains in Hegdenagara West 3rd and 4th cross Ward No - 06

Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (P.No-143, I.No-[illegible])								
For RCC Drain	Cum							
Hegdenagar								
1st main, Right Side								
1st cross		2	270.00	1.10	1.00	594.00		
2nd cross, RHS		1	270.00	1.10	1.00	297.00		
3rd cross, RHS		1	120.00	1.10	1.00	132.00		
1st main, Left Side								
1st cross, upto 2nd main		2	185.00	1.10	1.00	407.00		
2nd cross, 2nd main to Mn Rd		2	240.00	1.10	1.00	528.00		
3rd cross, upto 2nd main		2	180.00	1.10	1.10	435.60		
						2393.60	215.28	**515294.21**
Basic Rate Rs.=	130.00							
Add 6% A.W Rs. =	7.80							
Sub Total =	137.80							
3Km Lead, Loading and Unloading (2*1.28*8)+57	77.48							
Total Rate Rs. =	**215.28**							
KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18)								
For Drain	Cum							
Hegdenagar								
1st main, Right Side								
1st cross		2	270.00	1.10	0.15	89.10		
2nd cross, RHS		1	270.00	1.10	0.15	44.55		
3rd cross, RHS		1	120.00	1.10	0.15	19.80		
1st main, Left Side								
1st cross, upto 2nd main		2	185.00	1.10	0.15	61.05		
2nd cross, 2nd main to Mn Rd		2	240.00	1.10	0.15	79.20		
3rd cross, upto 2nd main		2	180.00	1.10	0.15	59.40		
						353.10	5421.90	**1914472.89**
Basic Rate Rs.=	5115.00							
Add 6% A.W Rs. =	306.90							
Total Rate Rs. =	**5421.90**							
Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. With 20mm and sown size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compcted for walls and bottom including centering shuttering cost of material HOM of machinary curing etc., complete execluding cost of steel as per MORTH specification no. 1500, 1700, 2200 including cost of material labour HOM complete as per specification. (P.No.271, I.No.37.59.2 of PW, P&IWTD S.R 2018-19)								
For RCC Drain	Cum							
Hegdenagar								

Description of work	Unit	No	Length	Breadth	Depth	Quantity	Rate	Amount
			m	m	m		in Rs	in Rs
Bottom slab								
1st main, Right Side								
1st cross		2	270.00	0.90	0.15	72.90		
2nd cross, RHS		1	270.00	0.90	0.15	36.45		
3rd cross, RHS		1	120.00	0.90	0.15	16.20		
1st main, Left Side								
1st cross, upto 2nd main		2	185.00	0.90	0.15	49.95		
2nd cross, 2nd main to Mn Rd		2	240.00	0.90	0.15	64.80		
3rd cross, upto 2nd main		2	180.00	0.90	0.15	48.60		
Side walls								
1st main, Right Side								
1st cross		4	270.00	0.15	0.70	113.40		
2nd cross, RHS		2	270.00	0.15	0.70	56.70		
3rd cross, RHS		2	120.00	0.15	0.70	25.20		
1st main, Left Side								
1st cross, upto 2nd main		4	185.00	0.15	0.70	77.70		
2nd cross, 2nd main to Mn Rd		4	240.00	0.15	0.70	100.80		
3rd cross, upto 2nd main		4	180.00	0.15	0.70	75.60		
						738.30		
				Net Qty.		**738.30**	7070.20	**5219928.66**
Basic Rate Rs.=	6670.00							
Add 6% A.W Rs. =	400.20							
Total Rate Rs. =	**7070.20**							
MORRB - M2300-14: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (less hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.MORTH Specification No. 1600 & 2200 for TMT bars Fe 500. (P.No.239, I.No.29.29.2 of PW, P&IWTD S.R 2018-19)								
Considering steel For Drain @ 60kg /cum	Tonne		738.30	0.060	--	44.30		
						44.30	73992.24	**3277708.25**
Basic Rate Rs.=	69804.00							
Add 6% A.W Rs. =	4188.24							
Total Rate Rs. =	**73992.24**							
Providing and fixing RCC precast cover slab of 100mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and directions of Engineer in-charge. (Data Rate)								
For drain cover slab	Sqm							
Vadenagar								
1st main, Right Side								
1st cross		2	270.00	0.90	--	486.00		
2nd cross, RHS		1	270.00	0.90	--	243.00		
3rd cross, RHS		1	120.00	0.90	--	108.00		
1st main, Left Side								
1st cross, upto 2nd main		2	185.00	0.90	--	333.00		
2nd cross, 2nd main to Mn Rd		2	240.00	0.90	--	432.00		
3rd cross, upto 2nd main		2	180.00	0.90	--	324.00		
						1926.00		
Deduct 10% slabs for BS Slab						192.60		
Deduct available slabs		142	0.60	0.90		76.68		
						1656.72	2337.00	**3871754.64**

Description of work	Unit	No	Length	Breadth	Depth	Quantity	Rate	Amount
			m	m	m		in Rs	in Rs
...viding granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including ...ing, curing etc., complete, 10 cms thick. Page No. 27/ Item No. 5.31.2 PWD SR 2018-19								
...e Drain	Sqm							
...ddenagar								
...% slabs for BS Slab						192.60		
						192.60	966.72	**186190.27**
Basic Rate Rs.=	912.00							
Add 6% A.W Rs. =	54.72							
Total Rate Rs. =	**966.72**							
...viding One line dressing to granite stone slab/ granite stone masonry as per speciication ...P.No.25, I.No.5.17 of PW,P&IWTD SR 2018-19)								
...e Drain	Sqm							
...ddenagar								
...% slabs for BS Slab						192.60		
						192.60	950.82	**183127.93**
Basic Rate Rs.=	897.00							
Add 6% A.W Rs. =	53.82							
Total Rate Rs. =	**950.82**							
...BS 4-1.6 ; Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, ...ith 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes ...0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in ...oundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per ...pecifications. Specification No. KBS 4.1, 4.2. (P.No.13, I.No.4.6 of PW, P&IWTD SR 2018-19)								
...e Drain	Nos							
...ddenagar								
...Main, Right Side								
...Cross		2	270.00	0.20	0.10	10.80		
...Cross, RHS		1	270.00	0.20	0.10	5.40		
...Cross, RHS		1	120.00	0.20	0.10	2.40		
...Main, Left Side								
...Cross, upto 2nd main		2	185.00	0.20	0.10	7.40		
...Cross, 2nd main to Mn Rd		2	240.00	0.20	0.10	9.60		
...Cross, upto 2nd main		2	180.00	0.20	0.10	7.20		
						42.80	5747.32	**245985.30**
Basic Rate Rs.=	5422.00							
Add 6% A.W Rs. =	325.32							
Total Rate Rs. =	**5747.32**							
...viding and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and ...om width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 ...ering and finishing cutting including formwork, curing, including cost of materials, labour charges ...achinery, loading and unloading, lead and lift, transportation ete.,complete. As per the direction of ...neer incharge. (P.No.27, I.No.5.30 of PW, P&IWTD SR 2018-19)								
...e Drain	Nos							
...ddenagar								
...Main, Right Side								
...Cross		2	270.00			540.00		
...Cross, RHS		1	270.00			270.00		
...Cross, RHS		1	120.00			120.00		
...Main, Left Side								
...Cross, upto 2nd main		2	185.00			370.00		
...Cross, 2nd main to Mn Rd		2	240.00			480.00		
...Cross, upto 2nd main		2	180.00			360.00		
						2140.00		
						4756.00	432.48	**2056874.88**
Basic Rate Rs.=	408.00							
Add 6% A.W Rs. =	24.48							
Total Rate Rs. =	**432.48**							

Description of work	Unit	No	Length	Breadth	Depth	Quantity	Rate	Amount
			m	m	m		in Rs	in Rs
Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 Specification No. KSRRB M800-6. (P.No.180, I.No.24.1 of PW, P&IWTD SR 2018-19)								
For Drain	Sqm							
Hegdenagar								
1st main, Right Side								
1st cross		2	270.00		0.30	162.00		
2nd cross, RHS		1	270.00		0.30	81.00		
3rd cross, RHS		1	120.00		0.30	36.00		
1st main, Left Side								
3rd cross, upto 2nd main		2	185.00		0.30	111.00		
3rd cross, 2nd main to Mn Rd		2	240.00		0.30	144.00		
2nd cross, upto 2nd main		2	180.00		0.30	108.00		
						642.00	84.80	**54441.60**
Basic Rate Rs.=	80.00							
Add 6% A.W Rs. =	4.80							
Total Rate Rs. =	**84.80**							
							Sub Total 1 Rs.	**17525778.63**
Add GST @ 12%								**2103093.44**
DPR & PMC Charges including GST								**371000.00**
							Sub Total 2 Rs.	**19999872.06**
Miscellaneous & Rounding off								127.94
							Total Rs.	**20000000.00**

CERTIFICATE:

The work spot has been inspected by me and the work is found to be necessary.

The estimate is prepared as per PW, P&IWTD S.R Bangalore circle for the year 2018-2019.

The Provisions made in the estimate are quite necessary and adequate.

The area comes with in the BBMP limits.

Assistant Engineer	Assistant Executive Engineer	Executive Engineer
Project Division Yelahanka	Project Division Yelahanka	Project Division Yelahanka
BBMP	BBMP	BBMP

25/11/2019

28/11/19

Technical Sanction
Accorded For .....
Head of A/C.....
CER NO :..... Dt:..

TA

CE (YNK)